

```
main.py
1 def main():
2     while True:
3         user_input = input("Enter marks (or type 'exit' to quit): ")
4
5         if user_input.lower() == 'exit':
6             print("Exiting the program.")
7             break
8
9         try:
10            marks = int(user_input)
11
12            if marks < 0 or marks > 100:
13                print("Please enter a number between 0 and 100.")
14                continue
15
16            if marks >= 90:
17                print("Grade: A")
```

Output

```
Enter marks (or type 'exit' to quit): 93
Grade: A
Enter marks (or type 'exit' to quit): 87
Grade: A-
Enter marks (or type 'exit' to quit): 85
Grade: B+
Enter marks (or type 'exit' to quit): 79
Grade: B-
Enter marks (or type 'exit' to quit): 83
Grade: B
Enter marks (or type 'exit' to quit): 76
Grade: C+
Enter marks (or type 'exit' to quit): 71
Grade: C
Enter marks (or type 'exit' to quit): 67
Grade: C-
Enter marks (or type 'exit' to quit): 65
Grade: D+
Enter marks (or type 'exit' to quit): 63
```

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```
main.py
18 elif marks >= 87 and marks <= 89:
19     print("Grade: A-")
20 elif marks >= 84 and marks <= 86:
21     print("Grade: B+")
22 elif marks >= 80 and marks <= 83:
23     print("Grade: B")
24 elif marks >= 77 and marks <= 79:
25     print("Grade: B-")
26 elif marks >= 74 and marks <= 76:
27     print("Grade: C+")
28 elif marks >= 70 and marks <= 73:
29     print("Grade: C")
30 elif marks >= 67 and marks <= 69:
31     print("Grade: C-")
32 elif marks >= 64 and marks <= 66:
33     print("Grade: D+")
34 elif marks >= 62 and marks <= 63:
35     print("Grade: D")
36 elif marks >= 60 and marks <= 61:
```

Output

```
Grade: C+
Enter marks (or type 'exit' to quit): 71
Grade: C
Enter marks (or type 'exit' to quit): 67
Grade: C-
Enter marks (or type 'exit' to quit): 65
Grade: D+
Enter marks (or type 'exit' to quit): 63
Grade: D
Enter marks (or type 'exit' to quit): 60
Grade: D-
Enter marks (or type 'exit' to quit): 43
Grade: F
Enter marks (or type 'exit' to quit): g
Invalid input! Please enter a valid integer or 'exit' to quit.
Enter marks (or type 'exit' to quit): exit
Exiting the program.
=== Code Execution Successful ===
```

```
35     print("Grade: D")
36 elif marks >= 60 and marks <= 61:
37     print("Grade: D-")
38 else:
39     print("Grade: F")
40
41 except ValueError:
42     print("Invalid input! Please enter a valid integer or 'exit' to quit.")
43
44 if __name__ == "__main__":
45     main()
46
```

Output

```
Grade: D+
Enter marks (or type 'exit' to quit): 63
Grade: D
Enter marks (or type 'exit' to quit): 60
Grade: D-
Enter marks (or type 'exit' to quit): 43
Grade: F
Enter marks (or type 'exit' to quit): g
Invalid input! Please enter a valid integer or 'exit' to quit.
Enter marks (or type 'exit' to quit): exit
Exiting the program.
=== Code Execution Successful ===
```

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